Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of the Claims:

Claims

- 1. (currently amended) A process for the production of a frozen vegetable or part thereof, wherein said process comprises the steps of:
- (i) subjecting a vegetable or part thereof to a firming treatment selected from:
 - a) immersing the vegetable or part thereof in a solution of a calcium salt[.],
 - b) heating the vegetable or part thereof to a temperature in the range about 50 to about 70°C, and
 - c) a combination of a) and b);
- (ii) under-cooling said vegetable or part thereof to a core temperature of less than or equal to -5° C;
- (iii) reducing the temperature to less than or equal to ~18°C.
- 2. (original) A process according to claim 1 wherein said calcium salt is a member selected from the group consisting of calcium chloride, calcium sulphate, calcium citrate, calcium monophospate and mixtures thereof.

- 3. (original) A process according to claim 2 wherein said solution of calcium salt comprises from 0.1 to 10% calcium.
- 4. (original) A process according to claim 3 wherein said solution of calcium salt comprises about 1% calcium.
- 5. (original) A process according to claim 3 wherein said vegetable or part thereof is immersed in the solution of calcium salt for a period of from 2 to 30 minutes.
- 6. (original) A process according to claim 1 wherein said vegetable or part thereof is heated to a temperature of from about 50 to about 70°C for a period of from about 2 to about 30 minutes.
- 7. (original) A process according to claim 6 wherein said temperature is about 65°C.
- 8. (original) A process according to claim 1 wherein said firming treatment comprises immersing the vegetable or part thereof in a solution of calcium salt at ambient temperature and immersing the vegetable or part thereof in an aqueous solution at a temperature of from about 50 to about 70°C (with or without calcium salt being present) in either order.
- 9. (currently amended) A process according to claim 8 wherein said firming treatment comprises the steps of:

immersing said vegetable or part thereof in a solution of calcium salt at ambient temperature for a period of from about 2 to about 30 minutes; and thereafter

immersing the vegetable or part thereof in a solution of calcium salt at a temperature of from about 50 to 70°C for a period of from 2 to 30 minutes, and optionally immersing the vegetable as part thereof in a solution of calcium salt for

a period of from 2 to about 30-minutes.

- 10. (original) A process according to claim 1 wherein at least 40% of ice formation within the core of said vegetable or part thereof in step (iii) occurs within a plurality of cellular structures, wherein the perimeter of each cellular structure is defined by a cell wall.
- 11. (original) A process according to claim 1 wherein said vegetable or part thereof is a member selected from the group consisting of potato, swede, turnip, pumpkin, onion, broccoli, tomato, zucchini, aubergine, water chestnut, pepper, mushroom, peas, sugarsnap peas, spinach, green beans, carrot and mange tout.
- 12. (original) A process according to claim 11 wherein said vegetable or part thereof is tomato.
- 13. (original) A process according to Claim 11 wherein said vegetable or part thereof is potato or carrot.
- 14. (currently amended) A frozen vegetable obtained by a process which comprises the steps of:
- (i) subjecting a vegetable or part thereof to a firming treatment selected from:
 - a) immersing the vegetable or part thereof in a solution of a calcium salt[.].
 - b) heating the vegetable or part thereof to a temperature in the range about 50 to about 70°C, and

- c) a combination of a) and b);
- (ii) under-cooling said vegetable or part thereof to a core temperature of less than or equal to -5°C;
- (iii) reducing the temperature to less than or equal to -18°C.
- 15. (original) A frozen meal comprising a vegetable or part thereof as defined in claim 14.
- 16. (original) Use of a vegetables as claimed in claim 14 in a frozen meal.
- 17. (new) The process according to claim 9 further comprising immersing the vegetable or part thereof in a solution of calcium salt for a period of from 2 to about 30 minutes.